IN THE CLAIMS

Claims 1-33 Cancelled

- 34. (Currently Amended) A multi-tier system for digital radio communication, comprising:
 - a processor-based host adapted to control a remote unit;
 - station operates in accordance with a first communications protocol; and
 a first second-tier base station communicatively coupled to the first-tier base station; and
 a second second-tier base station wirelessly coupled to the first second-tier base station,
 wherein the second second-tier base station is intermediate the first second-tier
 base station and the remote unit, and wherein the first second-tier base station is

capable of communicating with the second second-tier base station without an

intervening first-tier base station using a different communications protocol from

a first-tier base station communicatively coupled to the host, wherein the first-tier base

wherein the host is adapted to control the remote unit through the first-tier base station, the first second-tier base station, and the second second-tier base station.

- 35. (Currently Amended) <u>A multi-tier system for digital radio communication</u>, comprising: The system of claim 34,
 - a processor-based host adapted to control a remote unit;

the first communications protocol,

- a first-tier base station communicatively coupled to the host;
- a first second-tier base station communicatively coupled to the first-tier base station; and



a second second-tier base station wirelessly coupled to the first second-tier base station,

wherein the second second-tier base station is intermediate the first second-tier

base station and the remote unit, and wherein the first second-tier base station is

capable of communicating with the second second-tier base station without an intervening first-tier base station,

wherein the host is adapted to control the remote unit through the first-tier base station, the first second-tier base station, and the second second-tier base station.

wherein the <u>first-second</u> second-tier base station is adapted to go into a sleep mode for a preselected interval, wherein before entering the sleep mode, the <u>first-second</u> second-tier base station transmits an indication representative of the duration of the preselected interval to the remote unit.

- 36. (Previously presented) The system of claim 35, wherein the duration of the preselected interval is defined by a start and end time of the preselected interval.
- 37. (Previously presented) The system of claim 34, wherein the second second-tier base station is adapted to:

buffer data intended for the remote unit;

transmit an indication at predetermined intervals to inform the remote unit of the presence of buffered data;

receive a request from the remote unit; and

provide the buffered data to the remote unit in response to receiving the request from the remote unit.

- 38. (Previously presented) The system of claim 34, wherein the remote unit comprises a data collection device.
- 39. (Previously presented) The system of claim 34, wherein the remote unit comprises a bar code reader or an RFID reader.
- 40. (Previously presented) The system of claim 34, wherein the remote unit comprises at least one of a vending machine, door locking mechanism, computer peripheral, thermostat, and pager.
- 41. (Previously presented) The system of claim 40, wherein the remote unit comprises a computer peripheral selected from the group comprising a printer, modem, handheld terminal, point of sale station, and other serial or parallel devices.
- 42. (Previously presented) The system of claim 34, wherein said first second-tier base station is wirelessly connected to the first-tier base station.
- 43. (Previously presented) The system of claim 34, wherein the first-tier base station is wirelessly connected to the local area network.
- 44. (Previously presented) The system of claim 34, wherein the first second-tier base station is connected to the first-tier base station through a serial port.

- 45. (Previously presented) The system of claim 34, further comprising a third second-tier base station intermediate the remote unit and the second second-tier base station, wherein the second second-tier base station communicates with the remote unit through the third second-tier base station.
- 46. (Previously presented) The system of claim 34, wherein the second second-tier base station communicates with the first-tier base station through the first second-tier base station.
- 47. (Currently Amended) A multi-tier system for digital radio communication, comprising:
 - a processor-based host adapted to control a remote unit through a control signal;
 - a first-tier base station adapted to receive the control signal from the host, wherein the first-tier base station operates in accordance with a first communications protocol;
 - a first second-tier base station adapted to receive the control signal from the first-tier base station; and
 - a second second-tier base station wirelessly coupled the first second-tier base station, wherein the second second-tier base station is intermediate the first second-tier base station and the remote unit, and wherein the second second-tier base station is adapted to receive the control signal from the first second-tier base station using

a different communications protocol from the first communications protocol and to provide the control signal to the remote unit.

- 48. (Currently Amended) The system of claim 4647, further comprising a third second-tier base station intermediate the second second-tier base station and the remote unit, wherein the second second-tier base station provides the control signal to the third second-tier base station, which then provides the control signal to the remote unit.
- 49. (New) The system of claim 47, wherein the second second-tier base station is adapted to go into a sleep mode for a preselected interval, wherein before entering the sleep mode, the second second-tier base station transmits an indication representative of the duration of the preselected interval to the remote unit.
- . 50. (New) The system of claim 49, wherein the duration of the preselected interval is defined by a start and end time of the preselected interval.
- 51. (New) The system of claim 48, wherein the first-tier base station is wirelessly coupled to the first second-tier base station, and wherein the first second-tier base station has a shorter transmission range relative to the first-tier base station.
- 52. (New) The system of claim 34, wherein the first-tier base station is wirelessly coupled to the first second-tier base station, and wherein the first second-tier base station has a shorter transmission range relative to the first-tier base station.

53. (New) The system of claim 34, wherein the second second-tier base station is adapted to:

transmit an associate command to the remote unit;

the message from the remote unit in response to the associate command, wherein the message comprises an identifier associated with the remote unit; and transmit a synchronization interval to the remote unit in response to receiving the message.

54. (New) The system of claim 48, wherein the second second-tier base station is adapted to:

transmit an associate command to the remote unit;

receive a message from the remote unit in response to the associate command, wherein the message comprises an identifier associated with the remote unit; and transmit a synchronization interval to the remote unit in response to receiving the message.

- 55. (New) A multi-tier system for digital radio communication, comprising:
- a processor-based host adapted to control a remote unit;
- a first-tier base station communicatively coupled to the host, wherein the first-tier base
- station operates in accordance with a first communications protocol;
 a first second-tier base station communicatively coupled to the first-tier base station; and

a second second-tier base station wirelessly coupled to the first second-tier base station, wherein the second second-tier base station is intermediate the first second-tier base station and the remote unit, and wherein the second-tier base stations have a shorter transmission range relative to that of the first-tier base station,

wherein the host is adapted to control the remote unit through the first-tier base station, the first second-tier base station, and the second second-tier base station.

- 56. (New) The system of claim 55, wherein the second second-tier base station is adapted to go into a sleep mode for a preselected interval, wherein before entering the sleep mode, the second second-tier base station transmits an indication representative of the duration of the preselected interval to the remote unit.
- 57. (New) The system of claim 56, wherein the duration of the preselected interval is defined by a start and end time of the preselected interval.
- 58. (New) The system of claim 55, wherein the second second-tier base station is adapted to:

transmit an associate command to the remote unit;

receive a message from the remote unit in response to the associate command, wherein the message comprises an identifier associated with the remote unit; and transmit a synchronization interval to the remote unit in response to receiving the message.